# CENTRAL
## programs

Associate of Applied Science Degree
and Credential • Certificate

# Welding

The welding program is designed to provide students with entry-level skills and knowledge needed in today's welding industry. To be successful in the welding industry, a person must be able to adapt to work styles that require dependability, attention to detail, safety-consciousness, self-control, adaptability / flexibility, initiative, and cooperation.

## CAREER OPTIONS:

Bright career outlooks for welders, cutters and welder fitters, plus sheet metal workers, structural metal fabricators and fitters and boilermakers. There are also employment opportunities in other areas, including solderers and brazers, team assemblers, electro-mechanical technicians and computer-controlled machine tool operators.

Check out occupations and wages online:
http://onetcenter.org

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www.cwc.edu

The average length of each program:
credential - 14-15 credit hours
certificate - 31 credit hours
AAS degree - 64 credit hours

**www.cwc.edu**

The program combines hands-on welding experiences with classroom instruction in commonly used welding processes. Safety is emphasized in all areas of the welding program.

The AAS degree requires students to complete 64 credits of coursework and features a complete welding curriculum, as well as general education courses that are designed to encourage students to develop critical and creative thinking, computation and communication skills, lifelong learning skills, and technical skills used in welding. Additionally, the AAS offers courses in metallurgy and weld inspection to build depth of understanding in the welding field. Hands-on welding performance is required to complete the AAS degree.

**Associate of Applied Science Degree**

| **General Education Requirements** | | **Credits** |
|---|---|---|
| Writing Level I (WR1) | | 3 |
| American & Wyoming Government (POLS 1000) | | 3 |
| ARTS/DIV/HUM/IT/ORAL/SOC/WR2 | | 9 |
| (Must come from three categories, one of which must be either ORAL or WR2) | | |
| MATH/APPM/LSCI | | (In program) |
| PEAC/UNST/WELL | | 1 |
| **Program Requirements** | | |
| MATH 1500 | Applied Math (APPM) | 3 |
| PFDV 1500 | Managing Career Development | 3 |
| WELD 1500 | Welding Fundamentals | 2 |
| WELD 1550 | Occupational Safety and Health | 2 |
| WELD 1650 | Print Reading and Welding Symbols | 3 |
| WELD 1700 | General Welding | 4 |
| WELD 1760 | Adv.Shield Metal Arc Welding (SMAW) | 4 |
| WELD1770 | Gas Metal Arc Welding (GMAW) –Flux Core Arc Welding (FCAW) | 4 |
| WELD 1780 | Gas Tungsten Arc Wldg/Plate (GTAW) | 3 |
| WELD 1860 | Welding Fabrication | 3 |
| WELD 2510 | Pipe Welding 1 | 4 |
| WELD 2650 | GTAW Pipe | 4 |
| WELD 2670 | Welding Inspection Technology | 3 |
| WELD 2680 | Welding Metallurgy | 3 |
| | General Electives | 3 |
| | Total | 64 |

**Certificate**

The welding program is designed to provide students with entry-level skills and knowledge needed in today's welding industry. To be successful in the welding industry, a person must be able to adapt to work styles that require dependability, attention to de-tail, safe-ty-consciousness, self-control, adaptability / flexibility, initiative, and cooperation.

The program combines hands-on welding experiences with classroom instruction in commonly used welding processes. Safety is emphasized in all areas of the welding program.

The certificate program requires students to complete 31 credits of coursework and features a concentrated welding curriculum with em-phasis on Oxy-Fuel, SMAW, GMAW, GTAW, and basic pipe welding. Math and English are also included in this program of study.

| **General Education Requirements** | | **Credits** |
|---|---|---|
| Writing Level I (WR1) | | 3 |
| UNST | | 1 |
| MATH/APPM | | 3 |
| **Program Requirements** | | |
| WELD 1550 | Occupational Safety and Health | 2 |
| WELD 1650 | Print Reading and Welding Symbols | 3 |
| WELD 1700 | General Welding | 4 |
| WELD 1760 | Adv. Shield Metal Arc Welding (SMAW) | 4 |
| WELD 1770 | Gas Metal Arc Welding (GMAW) –Flux Core Arc Welding (FCAW) | 4 |
| WELD 1780 | Gas Tungsten Arc Wldg/Plate (GTAW) | 3 |
| WELD 2510 | Pipe Welding 1 | 4 |
| | Total | 31 |

**Credential**

The welding credential combines hands-on welding experiences with classroom instruction in commonly used welding processes. Safety is emphasized in all areas of the welding program. To be successful in the welding industry, a person must be able to adapt to work styles that require dependability, attention to detail, safety-consciousness, self-control, adaptability / flexibility, initiative, and cooperation.

The welding credential is designed for the student who has prior welding experience and desires to update their skills; and re-quires students to complete 14 credits of welding coursework, which may be completed in one semester.

| **Program Requirements** | | **Credits** |
|---|---|---|
| UNST 1005 | Freshmen Seminar | 1 |
| WELD 1550 | Occupational Safety & Health | 2 |
| WELD 1700 | General Welding | 4 |
| WELD 1760 | Advance Shield Metal Arc Welding (SMAW) | 4 |
| WELD 1770 | Gas Metal Arc Welding (GMAW) –Flux Core Arc Welding (FCAW) OR | |
| WELD 1780 | Gas Tungsten Arc Welding on Plate (GTAW) OR | |
| WELD 2510 | Pipe Welding 1 | 3-4 |
| | Total | 14-15 |